3

SAA09EL18-003

REV. C

B/L: 131.80

SYS: Ball/Bar Lights

- SLF

JUL 3 1 1992

Critical Item:

Adjustable Autotransformer (6 Items Total)

Find Number:

AT7, AT8, AT9 (1 ea/Runway)

Criticality Category: 1 (Night Landing Only)

SAA Na:

09EL18-003

System/Area:

Ball/Bar Lights - SLF

NASA Part No:

None

PMN/

U72-1336

Name:

Ball/Bar Lights

Mia

Technipower

Drawing/

80K51820

Part No:

W8L

Sheet No:

Function: Each transformer provides controlled voltage to one (1) of the Ball Lights.

Critical Failure Mode/Failure Mode No: Fail Short to Ground/09EL18-003.019, 09EL18-003.038

Fallure Cause: Structural Fallure/Contamination/Corrosion

Failure Effect: Loss of power to all of the Ball Lights due to fused safety switch opening. Loss of ability to acquire and maintain the proper inner guideslope during Orbiter landing operations. Possible loss of life/vehicle.

ACCEPTANCE RATIONALE

Deslan:

Estimated

Rated

Operating

Voltage = 0 to 120 volts

56.3 volts output

Current = 10 amps/13 amps

6.6 amps output

max.

Autotransformer is mounted in a NEMA 12 Hoffman Enclosure which is located inside an air conditioned structure.

Test:

- . Meets requirements of MIL-S-202, "Test Methods for Electronic and Electrical Components." Tested for vibration, shock, dielectric and operational in accordance with MIL-S-202.
- OMI I3134 requires verification of proper operation and equipment setup prior to each Shuttle launch and landing flow. 505023416

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SAA09EL18-003 REV. C

Inspection:

JUL 3 1 1992

 Visual inspections for corrosion, contamination and/or physical damage are accomplished annually during performance of OMI I3134 system verification.

Failure History:

- The PRACA database was researched and no failure data was found on this component in the critical failure mode.
- The GIDEP failure data interchange system was researched and no failure data was found on this component in the critical failure mode.

Operational Use:

Correcting Action:

There is no action which can be taken to mitigate the failure effect.

• Timeframe:

Since no correcting action is available, timeframe does not apply.

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